INDEX.

Editorial Notes—Gas, Lighting, &c.

Amalgamation of the London Gas Company, The, Proposed, 212, 1121
An Era of "Journal" History, 76
Belfast, The Gas Supply of, 252
Birmingham Corporation (Consolidation) Bill, The, 1076
Board of Trade—
  Boiler Explosions, 345
  Electric Lighting Affairs, 388, 948, 818, 1032
Boiler Explosions, The Board of Trade and, 345
Bolton, Gas Profits at, 388
Bristol, The Exhibition of Gas Apparatus at, 556
British Association for the Advancement of Science, Dr. Siemens's Address to the, at Southampton, 387, 427
Burslem, Exhibition of Gas Appliances at, 682
Capital of Gas Undertakings, Mr. N. H. Humphrys on the, 509
Carlisle Corporation Gas Supply, 682
Chemical Industry, Gas Works and, 773
Child, Mr. W. D., on Gas Exhibitions as a Means of Developing Consumption, 558
Coal and Wine Dues, The London, 904
Coal Fields, Gas Supply from the, 343, 510
Coal Market, The Prospects of the, 683
Coal, The Price of, 471, 774
Commercial Gas Company—
  Meeting of the, 636
  Report and Accounts of the, 593
Cripps, Mr. F. S., on Gasholder Curbs, 164
Crookenden, Mr. I. A., on the Disposal of Gas Profits by Corporations, 1119
Crystal Palace District Gas Company, Meeting of the, 556
Crystal Palace, The International Electric and Gas Exhibition at the, 11, 76, 123, 164, 211, 472, 635, 905, 1031, 1075
Dixon's Gas in Liverpool, 556
Electric Currents, Results of the Escape of, in New York, 858
Electric Lighting—
  At Birmingham, 510
  At Chesterfield, 76, 388, 682, 904
  At Cleethorpes, 14, 212
  At Stafford House, 252
  At the South Kensington Museum, 344
  At the Worcester Fine Art Exhibition, 594
  Birmingham Town Council and, 818
  Board of Trade Notices in Reference to, 948
  Board of Trade Rules as to, 388
  Bradford Corporation and, 1120
  Brush Company, The, and its Affairs, 164, 252, 682, 728, 904, 1032
  Chelsea Vestry and, 1076
  City Press on the Cost of, 774
  Companies, The Floating of, for, 13
  Deputations to Mr. Chamberlain on the Subject of, 818, 1032
  Government Bill in Reference to, 14, 124, 163, 212, 252, 296, 555, 594
  Hampstead Vestry and, 1076
  Hornsey Local Board and, 428
  Kidderminster Town Council and, 344
  Lane-Fox Lamps in Chancery, 1032
  Leeds Town Council and, 428
  Local Authorities' Applications for Powers in Reference to, 1120
  London Commissioners of Sewers and, 773, 1032
  Meetings of Companies, 76, 212, 510.
  Money on Dr. Siemens's Estimate for, in St. James's, 988
  Moulton, J. F., on the Cost of, 296
  Pall Mall Gazette on the Mania for, 987
  Press, The, and Speculations in, 124
  Rogers Company, The, 124, 164
  Rogers, Mr. J. B., at Reading, 1076
  Sheffield Town Council and, 555, 904
  Siemens, Dr., on, 387, 903
  Snell, Mr. H. S., on, 124
  Stamford Town Council and, 297
  St. George's, Southwark, Vestry and, 682
  St. Giles's, Camberwell, Vestry, and 1120
  St. Pancras Vestry and, 948
  Truth and Sir H. Tyler, 212
  Wolverhampton Town Council and, 858
Employers' Liability Act, Contractors and Gangers under the, 988
Engineering on the Gas Supply of Paris, 1032
Faure Accumulator Company, M. Philippart and the, 858, 1120
Ferranti Dynamo, The *Daily News* on the, 637
Festing, Lieut.-Col., on the Electric Light at the South Kensington Museum, 344
Floods, Interruption of Gas Supply by, 774
Foster, Professor, on the Waste of Nitrogen in Coal, 1120
Gas Appliances Manufacturing Company, A Projected, 1033
Gas Cooking, Dr. Stevenson Macadam on, 729
Gas Heating in the Potteries, The Development of, 682
Gas Institute, The Papers read at the Meeting of The, 12
Gas Legislation, The Prospects of, for 1883, 948
Gas Profits—
  Disposal of, by Corporations, 1119
  Local Government Board and the Application of, 817
Gas Stoves, Ironmongers and the Sale of, by Gas Companies, 556
Gas Supply from the Coal Fields, 343, 510
Gas Undertakings, Condition of Provincial, 428
Gas Works and Chemical Industry, 773
Gasholder Curbs, Mr. F. S. Cripps on, 164
Gaslight and Coke Company—
  Amalgamation of the, with the London Gaslight Company, The Proposed, 212, 1121
  Half Yearly Meeting of the, 296
  Report and Accounts of the, 251
Generator Furnaces—
  Hunt, Mr. C., on, 594
  Schilling and Bunte's, at Munich, 1033
German Gas Managers' Association, The Meeting of the, 164
Gibbs's, Mr. T. E., Report to the St. Pancras Vestry on Electric Lighting, 948
Humphrys, Mr. N. H., on the Capital of Gas Undertakings, 509
Hunt, Mr. C., on Generator Furnaces, 594
Ipswich Gas Works, Suggested Transfer of the, to the Corporation, 988
Ironmongers and the Sale of Gas Stoves by Gas Companies, 556
"Journal" History, An Era of, 76
Leicester Corporation Gas Supply, 637
Liverpool United Gaslight Company—
  Appointment of an Auditor of the Accounts of the, 637
  Cross, Dr., and the, 472
  Proposed Purchase of the Works of the, by the Corporation, 510
Local Government Board, The, and the Application of Gas Profits, 817
London Gaslight Company—
  Amalgamation of the, The Proposed, 212, 1121
  Meeting of the, 681
  Reports and Accounts of the, 636
Lucidity in Comparisons, 859
Macadam, Dr. Stevenson, on Gas Cooking, 729
Manchester Corporation Gas Committee, The, and their Coal Contracts, 594, 636
Manchester Corporation Gas Supply, 253, 472, 636
Manchester District Institution of Gas Engineers, Meetings of the, 388, 948
Metallic Gas Delusion, The, 818
Metropolis Gas Supply—
  Chief Gas Examiner's Reports, 77, 637
  Winter Instructions of the Metropolitan Gas Referees, 595
Midland Association of Gas Managers, Meeting of the, at Cheltenham, 594
Munich Generator Furnace, The, 1033
Municipal Corporations (Borough Funds) Act, 1872, Proposed Amendment of the, 14
New York—
  Interference with the Streets of, by Private Companies, 819
  Results of Escapes of Electric Currents in, 858
Nitrogen, The Waste of, in Coal, 1120
North British Association of Gas Managers, The Meeting of the, 77, 729
North of England Gas Managers' Association, Meeting of the, at York, 595
Nottingham Corporation Gas Undertaking, The, 76, 472
Padfield, Mr. W. A., on the Advantages of Statutory Protection to Gas Companies, 509
Paris, The Gas Supply of, 389, 1032
Parliamentary Procedure, The Reform of, 857
Philippart, M., and the Faure Accumulator Company, 858, 1120
Plymouth Gas Company, The Affairs of the, 13, 988
Poole, The Public Lighting of, 428
Porcelain Manufacture, Gas Kilns and Muffles for, 682
Portsmouth, The Public Lighting of, 472
Potteries, The Development of Gas Heating in the, 682
Private Bill Legislation, The Prospects of, for Session 1883, 987
Scarborough, The Price of Gas at, 728, 858
Sheffield United Gas Company—
  Meeting of the, 637
  Report and Accounts of the, 556
Siemens, Dr. C. W., Inaugural Addresses of—
  British Association for the Advancement of Science, 387, 427
  Society of Arts, 903
Sliding Scale—
  Dark Side of the, 345
  Padfield, Mr. W. A., on the, 509
  Suggestion for Improving the, 727
Smoke Abatement Institute, The, 124, 947
Snell, Mr. H. S., on Electric Lighting *v.* Gas, 124
Société Technique de l'Industrie du Gaz en France, The Congress of the, 77
Society of Arts, Dr. Siemens's Inaugural Address at the, 903
Southern District Association of Gas Engineers and Managers, Meeting of the, 858
South Metropolitan Gas Company—
  Meeting of the, 344
  Report and Accounts of the, 295
South-West of England District Association of Gas Managers—Meeting at Torquay, 509
Standards Department, Proposed Reforms in the, 949
Statutory Penalties, The Right to Recover, 905
Stayton's, Mr. G. H., Report to the Chelsea Vestry on Electric Lighting, 1076
Stoke and Fenton Joint Gas Undertaking, The Proposed Severance of the, 1077
Swansea Gas Company, The, and their Critics, 774, 989
Thompson's Gas Kilns and Muffles for Porcelain Manufacture, 682
Upper Sedgley Gas Project, The, 213
Widnes, The Gas Supply of, 510
Wigan and Neighbourhood, The Price of Gas in, 818
Winchester, The Public Lighting of, 428
Wyatt's, Mr., Suggested Alterations in Gas Plant, 729

Water and Sanitary Affairs.

Alexandria, The Water Supply of, 213
Analyst, The Reports of the, on the Principal Water Supplies of England, 125, 297, 429, 683, 859, 1033
Annual Value Question, Messrs. Dobbs and Dethridge and the, 345
Bangor, The Epidemic of Typhoid Fever at, 429, 511, 557, 596, 730
Beckett, Sir E., on the Financial Progress of the Metropolitan Water Companies, 1121
Birmingham Corporation Water Supply—The Insurance of Water Fittings, 254, 905
Bischof, Mr., on the Purity of River Waters, 819
Bradford Corporation Water Supply, 905
Brighton, The Sanitary Condition of, 15, 126, 298, 557, 820
British Association for the Advancement of Science—Meeting at Southampton—
  De Rance, Mr., on Underground Waters, 389
  Sclater-Booth, Mr., on Local Government in Rural Districts, 389
Burnley Corporation Water Supply, 775
Carlisle, The Water Supply of, 729
Chesterfield Corporation Sewage Farm, The, 820
Colour of Water, Herr Meyer on the, 390
Cutler's, Mr. W. H., Statistics as to Water Charges by Companies and Corporations, 990
Dartmouth, Inadequate Water Supply at, 165
De Rance, Mr., on Underground Waters, 389
Derby, A Water Rate Dispute at, 683
Devonport Workhouse, The Water Supply to the, 346
Dobbs and Dethridge, Messrs., and the Annual Value Question, 345
Dobbs Case—
  Result of the Appeal in the, 1077
  St. George's, Hanover Square, Vestry and the Costs in the, 165
Drainage of Houses and Stables at the West End, 15
Dundalk, Water Affairs at, 989, 1033
Ealing and Twickenham, The Water Supply of, 345
East London Water Company, Half Yearly Report of the, 637
Eltham, The Sewerage of, 684
Ely Local Board, The, and their Water Supply, 78, 1034
Fire Hydrants, The Provision of, in the Metropolis, 253
Galgate, Guardians in a Dilemma at, 596, 638
Germ Theory, Captain Galton on the, 595
Golcar, Sewage Treatment at, 949
Grand Junction Water Company, Half Yearly Meeting of the, 1077
Hancock, Mr. C. F., on Systems of Sewage Disposal, 1034
Hawarden, Deficient Water Supply at, 511
Hawley, Sir H., and the Sewage of West Malling, 1122
Huddersfield Corporation Water Supply, 165, 253, 1121
Hull, The Sanitary Condition of, 473
Keighley, Lead Poisoning at, 473, 638
Lambeth Water Company, Half Yearly Report of the, 949, 989
Lass's, Mr. A., "Analysis of the Accounts of the Metropolitan Water Companies for 1880-81," 297
Leeds Corporation Water Supply, 905
Lewes Water Works, Proposed Purchase of the, by the Town Council, 775
Leyland, The Water Supply of, 429
Liverpool Corporation Water Supply, 905
Lower Thames Valley Main Sewerage Board, The, and their Drainage Scheme, 78, 345, 511, 648, 729
Lusk, Sir A., on the Pollution of the Thames by Street Sweepings, 429

Manchester Corporation Water Supply, 389, 905
Medical Officers of Health, Some Curious Facts from the Annual Reports of, 906
Metropolis Water Supply—
Discrepancies in the Monthly Analysis of the, 557
Frankland's, Dr., Reports on the, 345, 511, 949, 1077
Local Government Board, Reports to, as to the, 125, 511, 729, 775, 949, 1121
Lord Mayor, The, and the, 638
Newspaper Correspondence on the, 595
Society of Arts Journal on the, 473
Thames Conservancy and the, 297
Metropolitan Board of Works, The, and the Thames Sewage Commission, 125
Metropolitan Water Companies—
Accounts of the, 297, 775
Beckett, Sir E., on the Financial Progress of the, 1121
Money on the Financial Position of the, 819
Newspaper Attacks on the, 819, 905
Rumoured Amalgamation of Certain of the, 729
Meyer, Herr, on the Colour of Water, 390
Milnes, The Action by Mr. J. J., against the Huddersfield Corporation, 253, 1121
Monson, Mr. E., on Metropolitan Sewage, 860
Newquay Local Board, The, and their Drainage Difficulties, 730
New River Company, The, and the Repair of Water Fittings, 638
Pall Mall Gazette, The, on the Lambeth Water Company's Proceedings, 989
Paris, Typhoid Fever in, 429
Plymouth, The Water Supply of, 473, 595, 730, 1121
Queenstown Water Bill, The, 14
Return as to the Water Supply of Birmingham, Bradford, Leeds, Liverpool, and Manchester, 905
River Waters, Captain Galton on the Purity of, 819
Sandbach, Water Supply and Sewerage Difficulties at, 859, 1034
Sanitary Institute Congress, The, in Newcastle, 595, 819
Sclater-Booth, Mr., on Local Government in Rural Districts, 389
Sewage—
Hancock, Mr. C. F., on the Disposal of, 1034
Monson, Mr. E., on the Treatment of, 860
Proceedings of the Royal Commission on, 78, 125, 165, 213, 253, 557, 859, 949
Sewage Pipes over Coal Workings, 859, 906
Sewer Gas and the Propagation of Zymotic Diseases, 213
Sewer Ventilation, The Lambeth Vestry and, 165
Sheffield, The Water and Sewage of, 125, 346
Southampton, The Water Supply of, 213
Southwark and Vauxhall Water Company—
Half Yearly Meeting of the, 1077
Report of the, 1033
South Eltham, Sewage Difficulties at, 429
South Staffordshire, The Water Supply of, 14
Stone, The Water Supply of, 1078
Street Sweepings and the Common Sewers, 429, 511, 906
Swansea, The Drainage of, 78
Thames Conservancy Report for 1881 and the Quality of the Metropolitan Water Supply, 297
Thames Sewage Outfalls, The Inquiry as to the, 78, 125, 165, 213, 253, 557, 859
Thames, The Pollution of the, by Rubbish, 429, 511
Thirlmere Scheme, The Arbitration Proceedings in Reference to the, 389
Tunbridge Wells, The Water Supply of, 683
Water Charges by Companies and Corporations, Mr. W. H. Cutler's Statistics as to, 990
Water Supply Projects for Session 1883, 949
West End, The Drainage of Houses and Stables at the, 14
West Malling, Sir H. Hawley and the Sewage of, 1122
Wimbledon Local Board Sewage Farm, The, 237
Wolverhampton Corporation Water Supply, 683, 819
Zymotic Diseases, Sewer Gas and the Propagation of, 213

Essays, Commentaries, and Reviews.

Ammonia Still for Small Gas Works, An, 1123
Board of Trade, The, and Electric Lighting in Scotland, 907
British Association for the Advancement of Science, The Meeting of the, 433
Brussels, Gas Lighting in, 639
Bunte's Apparatus for Analyzing Furnace Gases, 731
Clamond's Incandescent Gas Lamp, 214, 640
Clark's Regenerative Gas Burners, 950
Coal Gas, The Composition of, for Lighting, Heating, and the Production of Power, 990
Coal Tar and Ammoniacal Liquor, The Distillation of, 431
Coke Breaking Machines, 640
Commercial Gas Company, Telescopic Gasholder for the, 1035, 1079
Crystal Palace, The Exhibition of Electrical and Gas Apparatus at the, 1078
Defty's Improvements in Gas Burners and Heaters, 431
Electric and Gas Illumination, The Commercial Aspect of, 558
Electrician's Criticism on Electricians, An, 63
Electric Lighting—
In France, 686, 731, 1035
In Scotland, 907
In the City of London, 79
The Law as to, 686, 1123
Exhausting Plant, New, for the London Gaslight Company, 861
Faure Batteries as a Speculation, 906
Flow of Gas in Long Pipes, The, 390
Gas Acts for 1882, 776, 821
Gas Analysis, Simple, in France, 298
Gas Coals, The Estimation of, 862
Gas Engine, The Present and Future of the, 346
Gas Exhibition at the Crystal Palace, The Preparation for the, 820
Gas Exhibitions in the West of England, 596
Gas, The Demand for, in London, 126
Gas, The Measurement of, and Meter Testing, 127
Gas *v.* Incandescent Electric Lighting in Theatres, 1035
Generator Furnace, The New, at Munich, 1036, 1122
Goddard, Death of Mr. Ebenezer, of Ipswich, 730
Graham, Mr. D. A., on the Estimation of Gas Coals, 862
Grimston's New Gas Burner, 430
Hermit of Westminster, The Further Experiences of the, 951
Incandescent Electric Lighting, The Cost of, 731, 1035
Klönne's Gas Generator Furnace, 684
London Water Supply, 347
Meter Testing, The Measurement of Gas and, 127
North British Association of Gas Managers, The Meeting of the, 166
Oil Gas Manufacture, The Progress of, in Europe, 299
Oil Gas Works, A German Model, 991
Retort House Chimneys, 167
Snell, Mr. H. S., and His Critics, 254
Tottenham Gas Works, Condensers at the, 950
Water Acts for 1882, 821, 860
West of Scotland Association of Gas Managers, The Meeting of the, 597
Worcester, The Lighting of the Fine Art and Industrial Exhibition at, 512, 862

Notes.

Ærorthometer, The, 514
Ammonia from Town Refuse, 128
Anthracene from Báku Petroleum, 474
Asphalte Mortar, An, 863
Brush Electric Lamps, The Illuminating Power of, 863
Carbonic Acid, The Estimation of, 391
Carbonic Oxide, The Influence of Temperature on the Formation of, 734
Cement, Building Fire Bricks in, 733, 822
Chemical Ventilation, 216
Chimneys, The Draught of, 513
Coal Dust, The Production of Tar and Ammonia from, 474
Coal Haulage, The Cost of, 513
Coal Panic of 1873, Professor Jevons and the, 474
Coal, Smoke, and Fogs, Dr. Frankland on, 391
Coal Smoke, The Beginning of, in London, 777
Coal Tar and Petroleum Asphalte, 63
Coal Tar, Explosives from, 820
Coal Tar, The Use of, in Viticulture, 733
Coal, The Composition of, 300
Coffee Roaster, A Gas, 1080
Coke Burning Caloric Engine, A, 908
Coke, Improvements in the Manufacture of, 1038
Colour Photometry of Different Lights, 1080
Conservatory Heater, A New, 434
Douglass Burners for Gas and Oil, 642
Dynamo Machine, A Large, 822
Edison Electric Light Machinery in New York, The, 128
Electrical Tower Light, Another, 777
Electric Arc Light, The Origin of the, 952
Electric Battery of Flames, An, 301
Electric Lighting, A Breakdown of, 64
Electric Lighting Works, A Private, 688
Electric Light, The Penetration of the, 216
Enamelling Pipes, A New Method of, 348
Ferranti System on Show, The, 1080
Fireproof Cement, 474
Fraudulent Gas Consumers, A Check upon, 255
Gas Coal in Algiers, 863
Gas Combustion without Flame, 169
Gas Engine, An Early American, 777
Gas Escapes, The Influence of, upon Climate, 1080
Gas Explosion on Board Ship, Effects of a, 255
Gas Flames, Sensitive, 777
Gas Flames, The Influence of Pressure upon Coupled, 777
Gas Heating Regulators, 908
Gas Lighted Harbour Buoys, 559
Gas Mains, The Use of Sheet Iron, in Paris, 991
Gas Making Material, A New, 641
Gas Poisoning in New York, 1039
Gas Project, A Great, 688
Gas Purification by Lime and Breeze, 128
Gas Stove, A New American, 169
Gasification of Oils and Tar, The, 64
Gasoline Engine, A, 1038
German Coal Fields, Threatened Exhaustion of the, 992
Heat Regulator for Laboratories, A, 300
Heat, The Loss of, in Combustion, 169
Incandescent Electric Lamp, Another, 513
India Rubber, The Preservation of, 64
Lamp Lighter, Westphal's Improved Automatic, 300
Liegel's Self-Sealing Lid, 991
Light, The Platinum Unit of, 909
Lignite, A Great Bed of, 349
Lime, The Method of Slaking, 475
Locomotive Firing, Water and Naphtha for, 348
Lubricating Oils, Tests for, 951
Luminous Points, The Relation between Brilliancy and Surface of, 255
Luminous Sensations, the Intensity of Coloured, 909
Lyon's Automatic Gas Governor, 909
Mechanical Stoker, Another, 300
Obscuration Photometer, Suggestions for an, 169
Oil Wells of the Caspian, The, 474
Oxygen Gasholder, Explosion of an, 688
Oxygen, Obtaining, from the Air, 559
Paris, Sheet Iron Gas Mains in, 991
Paris, The Public Lighting of, 863
Petroleum Industry in the United States, The, 391
Photometer, A Pocket, 514
Photometry, A Problem in, 733
Pipe Joints, A Mastic for, 863
Popp Gas Burner, The, 951
Portland Cement, Chemical Tests for, 952
Priming for Oil Paint, 559
Safety Lamps for Gas Works, 991, 992
Selenium Photometer, A Practicable, 301
Sewage, The Purification of, 642
Siemens Street Lamp, An Improved Form of, 216
Smoke, The Utilization of, 434
Snelgrove's Governor Burner, 474
Spontaneous Combustion of Coal, Preventing the, 641
Sulphuric Acid in Paper, 777
Sulphurous Fumes, The Absorption of, from Furnace Gases, 392
Sulphur, The Extraction of, by the Wet Process, 992
Tar and Ammonia, The Production of, from Coal Dust, 474
Water Gauge, A Luminous, 434
Water Pollution, Extraordinary, 434
Wind Pressures, A New Table of, 348
Wind Pressures, The Report of the British Association Committee on, 434
Wire, The Conducting Capacity of, 733
Zinc, The Use of, in Steam Boilers, 687

Communicated Articles.

A New Specific Gravity Test. By T. Thorp, 823
An Investigation into the Strains upon the Top Curb of a Gasholder, with Remarks on Construction, &c. By F. S. Cripps, 170
American Gaslight Association, The Tenth Annual Meeting of the. By Our American Correspondent, 992
Comparative Fire Risks of Electric Lighting and Gas Lighting. By "Veritas," 779
Development of the Lighting Power of Coal Gas. By "Owen Merriman," 435
Effects of Variations in Temperature on Gas Main Pipes. By N. H. Humphrys, 392
Experimental Observations on the Production of Ammonia and Collateral Subjects connected with Coal Gas Manufacture. By W. Foster, M.A., F.C.S., 1081, 1124
Hydraulic Apparatus for Lifting Covers of Purifiers. By W. P. Wilson, 734
Improvements in Retort Lids and Mouthpieces. By W. P. Wilson, 693
Light and Flame. By A. Daniell, M.A., B.Sc., &c. (*continued from Vol.* XXXIX.), 128, 434, 559
Luminous and Non-Luminous Gas Flames. By G. E. Stevenson, 256
Notes on the Best Proportions for Dry Purifiers. By N. H. Humphrys, 778
Policy of Charging Rents for Gas Meters. By N. H. Humphrys, 994
Reaction between Oxide of Iron and Sulphuretted Hydrogen. By L. T. Wright, 909
Suggested Alterations in Gas Plant. By V. Wyatt, C.E., 778

Technical Record.

Albo-Carbon Burners, Experiments with, 301
American Gaslight Association—Annual Meeting at Pittsburgh—
Inaugural Address by Gen. A. Hickenlooper, 913
Paper Read—
The Future of the Gas Interest, by Mr. J. C. Pratt, 956
(*See also under* "*Communicated Articles.*")
Ammonia, a New Apparatus for the Estimation of, 64
British Association for the Advancement of Science—Meeting at Southampton—
Inaugural Address by the President, Dr. C. W. Siemens, 394
Review of Proceedings, 433
Papers Read—
Gas Burners, by Mr. W. T. Sugg, A.Inst.C.E., 438

British Association, The (*continued*)—
The Water Supply of Southampton, by Messrs. Shore and Westlake, 480
The Circulation of Underground Waters, by Mr. C. E. De Rance, 480
Centrifugal Separator for Liquids of Different Specific Gravities, A, 823
Chevalet's Washer Condenser, 216
Coal Gas: Its Manufacture and its Application to Artificial Illumination, &c., by Mr. C. E. Jones, 782
Constant Water Supply in Towns, 600
Electric Tower Lighting, 600
Firing with Hot Coke, 398
Flameless Combustion, Mr. T. Fletcher on, 349
Gas and Steam Motors, Mr. T. Holgate on the Efficiencies of, 953
Gas as an Illuminating Agent compared with Electricity, Mr. W. Sugg on, 172
Gas Institute, The—Proceedings at Nineteenth Annual Meeting (*contd. from Vol.* XXXIX.)—
Papers Read—
The Application of Gas to the Lighting of Open Spaces and Large Buildings, by Mr. W. T. Sugg, 37
Photometric Experiments with Gases of Different Qualities Carburetted, and the Use of the Same as a Standard for Determining the Illuminating Power of Coal Gas, by Mr. J. Methven, 42
Modern Apparatus for the Manufacture of Sulphate of Ammonia, by Mr. W. Hindson, 46
Methods of Manufacturing Sulphate of Ammonia, and the Adaptability of the Apparatus to the Production of Caustic Ammonia, by Mr. F. D. Marshall, 50
Some Experiments with Different Qualities of Illuminating Gas used in an "Otto" Gas Engine, by Mr. C. Hunt, M. Inst. C.E., 59
Some Remarks on Electricity and Petroleum as Competitors of Coal Gas, by Mr. J. Chew, 105
Holgate, Mr. T., on the Efficiencies of Gas and Steam Motors, 953
Jones, Mr. C. E., on the Manufacture of Coal Gas, and its Application to Artificial Illumination, &c., 782
Manchester District Institution of Gas Engineers—Meeting at Oldham—
Address by the President, Mr. J. Chadwick, 393
Discussion on Mr. Eastwood's Paper on "Oxides of Iron, Natural and Artificial," 475
Paper Read—
Notes on Gas at High Temperatures, by Mr. B. Askew, 393
Meeting in Manchester—
General Business, 952
Address by Mr. J. Chadwick, 952
Discussion on Mr. Askew's Paper, 1039
Paper Read—
Is it Desirable for Gas Companies to Undertake the Manufacture of Sulphate of Ammonia? by Mr. R. Jones, 995, 1083
Metropolitan Gas Referees' Street Lamp Pressure Gauge, 688
Midland Association of Gas Managers—Meeting at Cheltenham—
General Business, 598, 689, 690
Paper Read—
On Generator Firing and Regeneration or Recuperation, by Mr. C. Hunt, 598, 689
Newcastle-upon-Tyne Water Supply, Past and Present, 601
New England Association of Gas Engineers—Meeting at New Bedford (Mass.)—
Introductory Address by Mr. A. B. Slater, 560
Paper Read—
Gas Stoves for Cooking and Heating, by Mr. R. B. Taber, 560
North British Association of Gas Managers—Annual Meeting in Edinburgh—
General Business, 218, 220, 438
Inaugural Address by the President, Mr. W. Mackenzie, 218
Papers Read—
The Fractional Destructive Distillation of Coal in Connection with Gas Manufacture, by Mr. W. Young, 257
The Application of Siemens's Regenerative Gas Burner to Scotch Gas, by Mr. R. Mitchell, 302
Twenty-five *v.* Twenty Candle Gas, by Mr. J. M'Gilchrist, 303
Development of the Lighting Power of Coal Gas, with Notes on Street and Interior Lighting, by Mr. G. Bray, 350
Is it Possible to Equalize the Price of Gas? by Mr. J. Whimster, jun., 397
Siemens's Regenerative Furnaces for Retort Settings, by Mr. W. Foulis, 436
Lecture—
On the Sanitary Aspects of Cooking and Heating by Coal Gas, by Dr. S. Macadam, 735
North of England Gas Managers' Association—Meeting in York—
General Business, 642, 647
Inaugural Address by Mr. C. Sellers, 642
Papers Read—
On Coal Tar, by Mr. S. A. Sadler, 644
Suggested Alterations in Gas Plant, by Mr. V. Wyatt, 737
Paraffin Oil, Illuminating Gas from, 1082
Parkinson's Improvements in Wet Meters, 688
Pressure Gauge for Street Lamps, The Metropolitan Gas Referees', 688
Rappleye Rheometric Governor Gas Burner, The, 916
Society of Arts, Dr. Siemens's Inaugural Address before the, 910
Southern District Association of Gas Engineers & Managers—Quarterly Meeting in London—
General Business, 864
Paper Read—
Gas Exhibitions as a Means of Developing Consumption, by Mr. W. D. Child, 864
South-West of England District Association of Gas Managers—Meeting at Torquay—
General Business, 514, 520
Papers Read—
Some of the Advantages of the Dry Centre Valve, by Mr. J. Lowe, 514
Some Recent Experience in Improved Street and Internal Gas Lighting, by Mr. S. W. Durkin, 516
Is it Desirable for a Gas Company to be Working under an Act of Parliament? With Remarks on the Sliding Scale, by Mr. W. A. Padfield, 517
Subject Discussed—
The Capital of Gas Undertakings, 519
Sugg, Mr. W., on Gas as an Illuminating Agent as compared with Electricity, 172
Sulphurets, The Elimination of, from Gas, 440
Sulphuretted Hydrogen in Gas, The Estimation of, by Direct Weight, 996
West of Scotland Association of Gas Managers—Meeting in Glasgow—
General Business, 781
Inaugural Address by Mr. S. Dalziel, 691
Papers Read—
Overhead Travelling Apparatus for Lifting Purifier Covers, by Mr. A. Winton, 742
The Assessment of Gas Works, by Mr. A. Napier, 742
Subjects Discussed—
The Charging of Meter Rents, 781
Purification by Oxide of Iron, 781

Correspondence.

A Foul Gasholder or Dirty Water?—
Aqua Pura, 869
Hall, T. D., 825
Acquisition of Gas Undertakings by Local Authorities—Crookenden, I. A., 1126
Apparatus for the Estimation of Sulphur in Spent Oxide—Greville, H. L., 15
Chartered Gas Company and their Residual Products—Crump and Son, 354
Chevalet's Washer Condenser—
Chevalet, F., 480
Ford, A., 521
Livesey, G., 260
Dark Side of the Sliding Scale—Livesey, G., 354
Development of the Lighting Power of Coal Gas—
Bray, G., 649, 694
Finis Coronat Opus, 441, 745
Hartley, F. W., 744
Eastwood's, Mr., Paper on Oxides of Iron—
Bailes and Hallsworth, 562, 602
Carr, W., 562
Eastwood, C., 522
Electric and Gas Exhibition at the Crystal Palace—
Bray, G., 958
Livesey, G., 647, 694
Mead, F., 175
Sugg, W., 80
Electric Lighting of the Birmingham Town Hall—Lea, H., 602
Electric Tower Lighting in California—Fiat Lux, 917
Elimination of Sulphurets from Gas—
Mann, W., 521
Patterson, R. H., 521
Filing Gas Companies' Accounts with Local Authorities—
Country Secretary, 784
E. J. L., 998
Livesey, W., 868, 916, 1041
Stevenson, G. W., 958
Gas Burners—Sugg, W., 521
Gas Companies and Electric Lighting Powers—Livesey, W., 648
Gas Companies and Statutory Protection—Livesey, W., 601
Gas Exhibitions as a Means of Developing Consumption—Fletcher, T., 917
Gas Heating Burners—
Fletcher, T., 1126
Hislop, J., 1085
Gas Hot Plates for Muffin Bakers—Cox, G. J., 1085
Gas Jets for Ventilation—Humphrys, N. H., 260
Gas *v.* Electric Lighting—Snell, H. S., 81
Gas *v.* Electric Light in the East—Far East, 523
Generating Gas from Tar—Tellery, S. J., 399
Grüneberg's Apparatus for the Manufacture of Sulphate of Ammonia—Hipp, F., 354
Humphrys, Mr., on the Best Proportions for Dry Purifiers—
Greville, H. L., 825, 958
Humphrys, N. H., 825, 916
Hunt's, Mr., Paper on Generator Furnaces—Hunt, C., 744
Incorrectness of Some Dry Meters—S. T., 694
Lewis's Incandescent Gas Light—
Lewis, J., 15
Richards, W., 81
Municipal Corporations (Borough Funds) Bill—Livesey, W., 80
Origin and Object of the Sliding Scale—Livesey, W., 647
Policy of Charging Meter Rents—
Our Edinburgh Correspondent, 561, 650
Suum Cuique, 521, 602
Production of Ammonia Water—Clark, W., 220
Proposed Purchase of the Liverpool Gas Works—Cross, W., 562
Purification of Gas—Layton, T., 650
Reaction between Oxide of Iron and Sulphuretted Hydrogen—"Owen Merriman," 958
Regenerator Burners—
An Old Subscriber, 602
Thwaite, B. H., 650
Siemens's High Power Gas Burners—
Nelson, D. M., 745
Our Glasgow Correspondent, 784
Siemens Patent Gaslight Company, 563
Smoke Abatement Institute Proceedings—Coles, W. R. E., 997
Triumph of Gas over the Electric Light at Worcester—H. T., 563
"Turfa" as a Gas Making Material—J. T., 694
Ventilation of Gas Lights—Rutter, J. O. N., 399
Wyatt's, Mr., Suggested Alterations in Gas Plant—
Barker, G., 997
Heydon, J., 869
Jones, H. E., 784
Retort Gasholder, 824, 868, 1042
Stevenson, G. E., 824

A Country Secretary—Filing Gas Companies' Accounts with Local Authorities, 784
An Old Subscriber—Regenerator Burners, 602
Aqua Pura—A Foul Gasholder or Dirty Water? 869
Bailes and Hallsworth—Mr. Eastwood's Paper on Oxides of Iron, 562, 602
Barker, G.—Mr. Wyatt's Suggested Alterations in Gas Plant, 997
Bray, G.—
Development of the Lighting Power of Coal Gas, 649, 694
Electric and Gas Exhibition at the Crystal Palace, 958
Carr, W.—Mr. Eastwood's Paper on Oxides of Iron, 562
Chevalet, F.—Chevalet's Washer Condenser, 480
Clark, W.—Production of Ammonia Water, 220
Coles, W. R. E.—The Proceedings of the Smoke Abatement Institute, 997
Cox, G. J.—Gas Hot Plates for Muffin Bakers, 1085
Crookenden, I. A.—The Acquisition of Gas Undertakings by Local Authorities, 1126
Cross, W.—The Proposed Purchase of the Liverpool Gas Works, 562
Crump and Son—The Chartered Gas Company and their Residual Products, 354
Eastwood, C.—Mr. Eastwood's Paper on Oxides of Iron, 522
E. J. L.—Filing Gas Companies' Accounts with Local Authorities, 998
Far East—Gas *v.* Electric Lighting in the East, 523
Fiat Lux—Electric Tower Lighting in California, 917
Finis Coronat Opus—The Development of the Lighting Power of Coal Gas, 441, 745
Fletcher, T.—
Gas Exhibitions as a Means of Developing Consumption, 917
Gas Heating Burners, 1126
Ford, A.—Chevalet's Washer Condenser, 521
Greville, H. L.—
Apparatus for the Estimation of Sulphur in Spent Oxide, 15
Mr. Humphrys on the Best Proportions for Dry Purifiers, 825, 958
Hall, T. D.—A Foul Gasholder or Dirty Water? 825
Hartley, F. W.—The Development of the Lighting Power of Coal Gas, 744
Heydon, J.—Mr. Wyatt's Suggested Alterations in Gas Plant, 869
Hipp, F.—Dr. Grüneberg's Apparatus for the Manufacture of Sulphate of Ammonia, 354
Hislop, J.—Gas Heating Burners, 1085
H. T.—The Triumph of Gas over the Electric Light at Worcester, 563
Humphrys, N. H.—
Best Proportions for Dry Purifiers, 825, 916
Use of Gas Jets for Ventilation, 260
Hunt, C.—Mr. Hunt's Paper on Generator Furnaces, 744
Jones, H. E.—Mr. Wyatt's Suggested Alterations in Gas Plant, 784
J. T.—"Turfa" as a Gas Making Material, 694
Layton, T.—The Purification of Gas, 650
Lea, H.—The Electric Lighting of the Birmingham Town Hall, 602
Lewis, J.—Lewis's Incandescent Gas Light, 15
Livesey, G.—
Chevalet's Washer Condenser, 260
Dark Side of the Sliding Scale, 354
Electric and Gas Exhibition at the Crystal Palace, 647, 694
Livesey, W.—
Filing Gas Companies' Accounts with Local Authorities, 868, 916, 1041
Gas Companies and Electric Lighting Powers, 648
Gas Companies and Statutory Protection, 601
Municipal Corporations (Borough Funds) Bill, 80
Origin and Object of the Sliding Scale, 647

Mann, W.—The Elimination of Sulphurets from Gas, 521
Mead, F.—The Electric and Gas Exhibition at the Crystal Palace, 175
Nelson, D. M.—The Siemens Lamps at Glasgow, 745
Our Edinburgh Correspondent—The Policy of Charging Meter Rents, 561, 650
Our Glasgow Correspondent—The Siemens Lamps at Glasgow, 784
"Owen Merriman"—The Reaction between Oxide of Iron and Sulphuretted Hydrogen, 958
Patterson, R. H.—The Elimination of Sulphurets from Gas, 521
Retort Gasholder—Mr. Wyatt's Suggested Alterations in Gas Plant, 824, 868, 1042
Richards, W.—Lewis's Incandescent Gas Light, 81
Rutter, J. O. N.—The Ventilation of Gas Lights, 399
Siemens Patent Gaslight Company, Limited—Siemens's High Power Gas Burners, 563
Snell, H. S.—Gas *v.* Electric Lighting, 81
S. T.—Incorrectness of Some Dry Meters, 694
Stevenson, G. E.—Mr. Wyatt's Suggested Alterations in Gas Plant, 824
Stevenson, G. W.—Filing Gas Companies' Accounts with Local Authorities, 958
Sugg, W.—
Electric and Gas Exhibition at the Crystal Palace, 80
Gas Burners, 521
Suum Cuique—The Policy of Charging Meter Rents, 521, 602
Tellery, S. J.—Generating Gas from Tar, 399
Thwaite, B. H.—Regenerator Burners, 650

Register of Patents.

[*The names printed in italics are those of persons by whom patents have been communicated.*]

Abel, C. D.—Fluid Meters, 564
Airy, W.—Meters for Gas, &c., 523
Amagat, E. H.—Pyrometers, 1126
Anderson and Crossley—Ignition Apparatus for Gas Motor Engines, 917
Atkins, F. H. and W. G.—Softening, Purifying, and Filtering Water, 307
Baldwin, J.—Valves, 1043
Beechey, C. G.—Gas Motor Engines, 785
Bénier and Lamart—Gas Engines, 1042
Bennett and Walker—Mixing and Burning Gas, 82
Bénoist, A.—Valve Cocks, 603
Berlin-Anhaltische Maschinenbau-Actien-Gesell schaft—Fastenings for Retort Lids, Covers, &c., 1043
Bickerton, S. and H. N.—Gas Motor Engines, 1127
Bisschop, A.—Gas Engines, 523
Bonneville, A.—Washing Gases, 221
Borradaile and Welch—Regulating and Controlling the Flow of Water, &c., 1085
Bouilliez, E.—Manufacture of Gas, 785
Brin, L. Q.—Burning Hydrocarbon Gas with Hydrogen, 1043
Buxton and Ross—Preventing the Bursting of Water Pipes through Frost, 650
Chevalet, L. A.—Washing Gases, 221
Church, W. C.—Circular Slide and other Valves, 563
Clark, A. M.—Raising Water, 565
Clarke and Leigh—Electric Gas Lighters, 695
Clayton, S.—Gas Motor Engines, 1086
Costes, P.—Gas Burners, 400
Crossley and Holt—Gas Motor Engines, 220
Decoudun, J.—Raising Water, 565
Dempster, J.—Manufacture of Sulphate of Ammonia, 603
Drake and Muirhead—Gas Engines, 1042
Dufrené, H. A.—Gas Engines, 1042
Dunn and Sleat—Gas Exhausters, 130
Dwight, G. S.—Water Gas Manufacture, 998
Edmondson, C. I. and F.—Indicators for Gas Meters, 220
Emmet, C.—Gas Engines, 523
Engel, F. H. F.—
Gas Pressure Accumulators, 221
Reflectors for Gas Lights, 651
European Water Gas Company—Generating Water Gas, &c., 16
Fielding, J.—Gas Motor Engines, 695
Fletcher, T.—Gas Heating Burners, 1043
Fogarty, T. B.—Manufacture of Gas, 651
Franke, G.—Reflectors for Gas Lights, 651
Geofrey-Gomez, P.—Gas Stoves, 695
Green, H.—Removing Obstructions in Gas and Water Pipes, 129
Grimston, G. S.—Gas Burner Apparatus, 651
Gutensohn, A.—Cocks or Valves, 695
Haddan, H. J.—Manufacture of Coke, 354
Hagen, E.—Burning Hydrocarbon Gas with Hydrogen, 1043
Haigh and Nuttall—Gas Engines, 564
Harcourt, A. G. V.—Measuring Gas, 650
Healey, B. D.—Water Meters, 999
Hearington, A. H.—Obtaining Heat and Light from Gas, 1126
Hutchinson, W. B.—Gas Engines, 1127
Ingleby, J.—Fastenings for Retort Lids, Covers, &c., 1043
Jensen, P.—Generating Water Gas, &c., 16
Johnson, J. H.—Gas Engines, 523
Jones, T. E.—Purification of Coal Gas, 603
Jones, W.—Fluid Meters, 16
Kaiser, A.—Fluid Meters, 564
Kendall, J. A.—Treating Coal Gas to obtain Benzole, 826
Klinkerfues, W.—Gas Pressure Accumulators, 221
Lake, W. R.—
Manufacture of Gas, 651
Valve Cocks, 603
Laycock and Clapham—Manufacture of Gas, 129
Leoni, S.—Gas Cooking and Heating Stoves, 16
Lewis, J.—Gas Burners, 826
Liegel, G.—Fastenings for Retort Lids, Covers, &c., 1043
Lyon, W.—Gas Governors, 604
M'Dougall, A.—Treating Solutions containing Compounds of Ammonia, 354
Mewburn, J. C.—Water Gas Manufacture, 998
Mobbs, O.—Gas Engines, 1126
Morgan, T.—Cocks or Valves, 564
Morley, C. W.—Showing the Illuminating Power of Gas Burners, 1042
Morton and Williams—Purification of Coal Gas, 747
Mountford, C. J.—Fire Resisting Bricks and Blocks, 695
Mucklow and Spurge—Photometers, &c., 130
Neilson, G.—Abstracting Ammonia from the Gaseous Products of Combustion in Furnaces, 400
Niel, P.—Gas Engines, 695
Parkinson, W. C.—Wet Gas Meters and Low Pressure Water Meters, 1043
Pihl, O. A. L.—Purification of Gas, 746
Plunkett, Hon. J. W.—Turning off Gas from Burners, &c., 564
Porteous, A. N.—Gas Engines, 998
Pullin and Bonser—Collecting and Removing the Deposits from Gas or Water Mains, 959
Ransome, E. L.—Utilizing the Spent Lime from Gas Works, 82
Reckenzaun and Redfield—Producing Light and Heat, 746
Reddie, A. W. L.—Manufacture of Gas, 785
Richardson, T. A.—Gas Burners, 354
Rippingille, E. A.—Gas Stoves, 220
Ross and Buxton—Water Filters, 603
Royle, J.—Gas Fittings, Reading Lamps, &c., 220
Russ, B.—Manufacture of Gas, 1126
Sauvée, A.—Pyrometers, 1126
Seibel, G.—Manufacture of Coke, 354
Shaw, J.—Gas Motor Engines, 82
Siemens, C. W.—
Engines Worked by the Combustion of Gaseous Fuel, 129
Lamps, 400
Siemens, F.—Gas Burners and Regulators, 307
Skene, R.—
Gas Motor Engines, 870
Rotary Gas Pumps, 746
Skinner, S.—Gas Engines, 998
Slater and Brophy—Gas Cooking Apparatus, 563
Smith, G.—Pipes for Gas, Water, &c., 695
Smith, J. H.—Gas Burners, 354
Snelgrove, W.—Self-Regulating Gas Burners, 82
Société Anonyme de Produits Chimiques—Cocks or Valves, 564
Sombart, C. M.—Gas Engines, 998
Spence and Devignes—Purifying Coal Gas, 82
Spence, P.—
Purification of Water, 82
Treating Gases arising from the Manufacture of Ammonia Salts from Gas Liquor, 870
Spence, P. and F. M.—Purification of Water, 1086
Stevenson, J. C.—Pressure Regulating Apparatus, 1043
Sumner, H.—Gas Motor Engines, 826
Sugg, W. T.—
Gas Burners and their Manufacture, 307
Gas Cooking Apparatus, 82
Thompson and Booer—Gas Ovens, 564
Thompson, D. and W. H.—Gas Kilns and Furnaces, 400
Thompson, W. P.—Gas Burners, 400
Thorp and Marsh—Exhausting Gas from Mains, and Delivering it at a Pressure, 1085
Thorp, T.—Gas Lighting and Heating Apparatus, 785
Torr, C. W.—Gas Stoves, 16
Trewby, G. C.—Purification of Gas, 746
Turner, F. W.—Gas Engines, 441
Verity, B.—Burners for Gas Fires, 603
Walker J.—Purifying Coal Gas, 82, 441, 870
Wastfield, E. S.—Gas Engines, 524
Watson, W.—
Gas Engines, 221
Purifying Coal Gas, 785
Weston, J. H.—Increasing the Illuminating Power of Gas, 354
Westphal, C.—Automatically Lighting and Extinguishing Gas, 130
Wigner, G. W.—Gas Fires, 564
Williams, H.—Gas Motor Engines, 220
Willmot and Leehmann—Gas Burners, 785
Wirth, F.—Automatically Lighting and Extinguishing Gas, 130
Withers, S.—Gas Engines, 441
Wordsworth and Lindley—Gas Engines, 603
Worssam, S.—Gas Motor Engines, 1085
Wylde, R. H.—Atmospheric Gas Burners, 746
Young and Beilby—Producing Ammonia from Coal, &c., 826

Abstracting Ammonia from the Gaseous Products of Combustion in Furnaces—Neilson, G., 400
Atmospheric Gas Burners—Wylde, R. H., 746
Automatically Lighting and Extinguishing Gas—Wirth, F. (*Westphal, C.*), 130
Burners for Gas Fires—Verity, B., 603
Burning Hydrocarbon Gas with Hydrogen—Hagen, E. (*Brin, L. Q.*), 1043
Circular Slide and other Valves—Church, W. C., 563
Cocks or Valves—
Gutensohn, A., 695
Morgan, T. (*La Société Anonyme de Produits Chimiques*), 564
Collecting and Removing Deposits from Gas or Water Mains—Pullin and Bonser, 959
Electric Gas Lighters—Clarke and Leigh, 695
Engines Worked by the Combustion of Gaseous Fuel—Siemens, C. W., 129
Exhausting Gas from Mains, and Delivering it at a Pressure—Thorp and Marsh, 1085
Fastenings for Retort Lids, Covers, &c.—Ingleby, J. (*The Berlin-Anhaltische Maschinenbau-Actien-Gesellschaft and Liegel, G.*), 1043
Fire Resisting Bricks and Blocks—Mountford, C. J., 695
Fluid Meters—
Abel, C. D. (*Kaiser, A.*), 564
Jones, W., 16
Gas Burner Apparatus—Grimston, G. S., 651
Gas Burners—
Costes, P., 400
Lewis, J., 826
Richardson, T. A. (*Smith, J. H.*), 354
Snelgrove, W., 82
Sugg, W. T., 307
Thompson, W. P., 400
Willmot and Leehmann, 785
Gas Burners and Regulators—Siemens, F., 307
Gas Cooking Apparatus—
Slater and Brophy, 563
Sugg, W., 82
Gas Engines—
Beechey, C. G., 785
Bickerton, S. and H. N., 1127
Clayton, S., 1086
Crossley and Holt, 220
Drake and Muirhead, 1042
Dufrené, H. A. (*Bénier and Lamart*), 1042
Emmet, C., 523
Fielding, J., 695
Haigh and Nuttall, 564
Hutchinson, W. B., 1127
Johnson, J. H. (*Bisschop, A.*), 523
Mobbs, O., 1126
Niel, P., 695
Porteous, A. N., 998
Shaw, J., 82
Skene, R., 870
Skinner, S., 998
Sombart, C. M., 998
Sumner, H., 826
Turner, F. W., 441
Wastfield, E. S., 524
Watson, W., 221
Williams, H., 220
Withers, S., 441
Wordsworth and Lindley, 603
Worssam, S., 1085
Gas Exhausters—Dunn and Sleat, 130
Gas Fires—Wigner, G. W., 564
Gas Fittings, &c.—Royle, J., 220
Gas Governors—Lyon, W., 604
Gas Heating Burners—Fletcher, T., 1043
Gas Kilns and Furnaces—Thompson, D. and W. H., 400
Gas Lighting and Heating Apparatus—Thorp, T., 785
Gas Meters—Parkinson, W. C., 1043
Gas Ovens—Thompson and Booer, 564
Gas Pressure Accumulators—Engel, F. H. F. (*Klinkerfues, W.*), 221
Gas Stoves—
Geofrey-Gomez, P., 695
Leoni, S., 16
Rippingille, E. A., 220
Torr, C. W., 16
Generating Water Gas, &c.—Jensen, P. (*European Water Gas Company*), 16
Ignition Apparatus for Gas Motor Engines—Anderson and Crossley, 917
Increasing the Illuminating Power of Gas—Weston, J. H., 354
Indicators for Gas Meters—Edmondson, C. I. and F., 220
Lamps—Siemens, C. W., 400
Manufacture of Coke—Haddan, H. J. (*Seibel, G.*), 354
Manufacture of Gas—
Lake, W. R. (*Fogarty, T. B.*), 651
Laycock and Clapham, 129
Reddie, A. W. L. (*Bouilliez, E.*), 785
Russ, B., 1126
Manufacture of Sulphate of Ammonia—Dempster, J., 603
Measuring Gas—Harcourt, A. G. V., 650
Meters for Gas, &c.—Airy, W., 523
Mixing and Burning Gas—Bennett and Walker, 82
Obtaining Heat and Light from Gas—Hearington, A. H., 1126
Photometers, &c.—Mucklow and Spurge, 130
Pipes for Gas, Water, &c.—Smith, G., 695
Pressure Regulating Apparatus—Stevenson, J. C., 1043
Preventing the Bursting of Water Pipes through Frost—Buxton and Ross, 650
Producing Ammonia from Coal, &c.—Young and Beilby, 826

Producing Light and Heat—Reckenzaun and Redfield, 746
Purification of Water—
Spence, P., 82
Spence, P. and F. M., 1086
Purifying Coal Gas—
Jones, T. E., 603
Morton and Williams, 747
Spence and Devignes, 82
Trewby, G. C. (*Pihl, O. A. L.*), 746
Walker, J., 82, 441, 870
Watson, W., 785
Pyrometers—Sauvée, A. (*Amagat, E. H.*), 1126
Raising Water—Clark, A. M. (*Decoudun, J.*), 565
Reflectors for Gas Lights—Engel, F. H. F. (*Franke, G.*), 651
Regulating and Controlling the Flow of Water, &c.—Borradaile and Welch, 1085
Removing Obstructions in Gas and Water Pipes—Green, H., 129
Rotary Gas Pumps—Skene, R., 746
Showing Illuminating Power of Gas Burners—Morley, C. W., 1042
Softening, Purifying, and Filtering of Water—Atkins, F. H. and W. G., 307
Treating Coal Gas to obtain Benzole—Kendall, J. A., 826
Treating Gases arising from the Manufacture of Ammonia Salts from Gas Liquor—Spence, P., 870
Treating Solutions containing Compounds of Ammonia—M'Dougall, A., 354
Turning off Gas from Burners, &c.—Plunkett, Hon. J. W., 564
Utilizing the Spent Lime from Gas Works—Ransome, E. L., 82
Valve Cocks—Lake, W. R. (*Bénoist, A.*), 603
Valves—Baldwin, J., 1043
Washing Gases—Bonneville, A. (*Chevalet, L. A.*), 221
Water Filters—Ross and Buxton, 603
Water Gas Manufacture—Mewburn, J. C. (*Dwight, G. S.*), 998
Water Meters—
Healey, B. D., 999
Parkinson, W. C., 1043

Patent Notices, 16, 82, 221, 260, 308, 354, 400, 441, 480, 565, 651, 695, 747, 786, 826, 870, 917, 959, 999, 1043, 1086, 1127

Parliamentary Intelligence.

House of Lords—Electric Lighting Bill, 262, 310
House of Commons—
Electric Lighting Bill, 17, 133, 175, 365
Fire Hydrants in the Metropolis, 264, 310
Gas in Lighthouses, 223
House of Commons Committees—
Bristol Water Bill, 183
Electric Lighting Bill (*continued from Vol.* XXXIX.), 17, 109

Gas and Water Works Facilities Act, 1870—Proceedings under the Act during the Session of 1882, 310
Progress of Private Bills relating to Gas, Water, Electric Lighting, &c., 17, 83, 84, 132, 133, 222, 223, 261, 262, 309, 310, 355, 356

Notices given for Private Bills (Session 1883) relating to the Supply of Gas and Water, Electric Lighting, &c., 999
Notices of Applications to the Board of Trade (Session 1883) under the Gas and Water Works Facilities Act, 1870, 1000
Notices of Applications to the Board of Trade (Session 1883) under the Electric Lighting Act, 1882, 1000

Legal Intelligence.

Bolton Police Court—Fraudulent Consumption of Gas, 604
Bristol Police Court—Brown *v.* Bristol Water Works Company, 1002
Burslem Police Court—Unlawfully Abstracting Water, 751
Cardiff Police Court—Charge of Fraudulent Consumption of Gas, 747
Chester Quarter Sessions—The Stalybridge Gas Company and their Accounts, 88
Dudley County Court—The Results of Amateur Gas Making, 565
Edgware Sessions—The Accounts of the North Middlesex Gas Company, 752
Gosport Police Court—Cash Deposits and Arrears of Gas Rent, 652
Gravesend Borough Quarter Sessions—The Supply of Water to Closets, 23
Hampshire Michaelmas Sessions—Conviction of a "Gas Burner Man," 1004
High Court of Justice—
Chancery Division—
Bateman *v.* Wright, 870
Bennett *v.* The Gaslight and Coke Company, 1000
Sugg *v.* Bray, 1088
Williams *v.* Pontypool Gas and Water Company, 917
Yorkshire Brush Electric Light and Power Company, Limited, 870
Queen's Bench Division—
Cooper *v.* The Gaslight and Coke Company, 1001
Countess Ossalinski *v.* Manchester Corporation, 1001
Kent *v.* Worthing Local Board, 959, 1088
Milnes *v.* Mayor and Corporation of Huddersfield, 184, 1089, 1127
Normanton Gas Company *v.* Pope and Pearson, Limited, 1002, 1127
Lambeth Police Court—Neglecting to Provide Adequate Water Supply Apparatus, 918
Liverpool City Sessions—The Liverpool United Gas Company's Accounts, 652, 876
Nottingham Police Court—Conviction for Stealing Gas, 356
Pontypridd Police Court—A Water Company Fined for Cutting Off a Supply, 1002
Sheffield Borough Police Court—The Sheffield Water Company and their Customers, 130
Southampton County Bench—A "Gas Burner Man" Committed for Trial, 612
Southampton Police Court—Alleged Fraud on the Southampton Gas Company, 565
Stourbridge County Court—A Water Company Fined for Failure of Supply, 442
Supreme Court of Judicature—Court of Appeal—Dobbs *v.* Grand Junction Water Works Company, 1086
Swansea Police Court—Tampering with Gas Meter Fittings, 1044
Wandsworth Police Court—A Fracas over the Examination of a Gas Meter, 356
West Riding Quarter Sessions—The Rating of the Yeadon and Guiseley Gas Company's Works, 751
Worship Street Police Court—Charge of Fraud in Connection with the Chamberlain Gas Process, 1128
Yarmouth Police Court—Charge of Stealing Water, 1002
York Police Court—Defrauding the York Gas Company, 524
Yorkshire (West Riding) Summer Assizes—Milnes *v.* Mayor and Corporation of Huddersfield, 264

Meetings of Companies.

Accrington Gas and Water Company, 448
Ackworth, Featherstone, Purston, and Sharlston Gas Company, 571
Albo-Carbon Light Company, 271
Aldershot Gas and Water Company, 482
Alexandria Water Company, 1131
Alliance and Dublin Consumers' Gas Company, 655
Ardsley Gas Company, 364
Ashford Gas Company, 364
Australian Gaslight Company, 572
Bahia Gas Company, 828
Barnet District Gas and Water Company, 400
Belper Water Company, 188
Berkhamstead Gas Company, 16
Bombay Gas Company, 919
Bordeaux Gas Company, 1132
Brighton and Hove General Gas Company, 481
Brisbane Gas Company, 793
Bristol United Gas Company, 525
British Gaslight Company, 606
Bromley Gas Consumers' Company, 401
Brompton, Chatham, &c., Water Company, 448
Brymbo Water Company, 488
Calverley and Horsforth Gas Company, 364
Cambridge University and Town Gas Company, 267
Cambridge University and Town Water Company, 260
Canterbury Gas and Water Company, 482
Carnforth Gas Company, 264
Caterham Spring Water Company, 135
Chelsea Water Company, 1131
Chertsey Gas Consumers' Company, 960
Chesterfield Water and Gas Company, 402
Colne Valley Water Company, 318
Commercial Gas Company, 652
Continental Union Gas Company, 1090
Cork Gas Consumers' Company, 361
Craven Arms Gas Company, 612
Cromer Gas Company, 962
Crystal Palace District Gas Company, 566
Derby Gas Company, 448
Devonport Gas Company, 185
Diss Gas Company, 260
Dorchester Gas Company, 404
Dorking Gas Company, 612
Dorking Water Company, 484
Dover Gas Company, 525
Eastbourne Gas Company, 443
East Worcestershire Water Company, 444
European Gas Company, 134
Farnworth and Kearsley Gas Company, 524
France, General Gas Company of, 961
Fylde Water Company, 877
Gaslight and Coke (Chartered) Company, The, 311
Georgetown (British Guiana) Gas Company, 920
Glossop Gas Company, 483
Godalming Gas Company, 488
Goulburn (N.S.W.) Gas Company, 959
Grand Junction Water Company, 1129
Grantham Gas Company, 482
Grantham Water Company, 484
Gympie (Queensland) Gas Company, 704
Harrow District Gas Company, 567
Hartlepool Gas and Water Company, 442
Hastings and St. Leonards Gas Company, 481
Herne Bay Gas Company, 403
Imperial Continental Gas Association, 871
Kildwick Parish Gas Company, 188
Lewes Gas Company, 482
Lewes Water Company, 485
Lincoln Gas Company, 271
Liverpool United Gas Company, 360, 1090
London Gas Company, 315, 696
Maidstone Water Company, 447
Malta and Mediterranean Gas Company, 85
Mansfield Woodhouse Gas Company, 1049
Maryborough (Queensland) Gas Company, 751
Monmouth Gas and Water Company, 301
Morecambe Gas Company, 489
Newhaven and Seaford Water Company, 959, 1005
Newport (Mon.) Gas Company, 364
Newport (Mon.) Water Company, 447, 1094
Normanton Gas Company, 365
Odessa Water Company, 791
Oriental Gas Company, 1004
Pará Gas Company, 364
Peterborough Gas Company, 357
Plymouth and Stonehouse Gas Company, 21
Pontefract Gas Company, 364
Pontypridd Water Company, 297
Poole Gas Company, 404
Port Elizabeth (Cape Colony) Gas Company, 530
Portishead District Water Company, 1049
Portsea Island Gas Company, 442
Portsmouth Water Company, 401, 793
Preston Gas Company, 364
Reading Gas Company, 443
Reigate Gas Company, 311
Richmond (Surrey) Gas Company, 482
Rochester, Chatham, and Strood Gas Company, 356
Rockhampton (Queensland) Gas Company, 530
Scarborough Gas Company, 443
Sevenoaks Gas Company, 447, 751
Sevenoaks Water Company, 444
Sheffield United Gas Company, 654
Shipley Gas Company, 221
Shotley Bridge and Consett District Gas Company, 550
Shrewsbury Gas Company, 568
Singapore Gas Company, 827
South Australian Gas Company, 873
South Metropolitan Gas Company, 357
South Staffordshire Water Company, 402
Southport Water Company, 399
Southwark and Vauxhall Water Company, 1126
Sugg and Co., Limited, 606
Sunderland Gas Company, 481
Sutton (Surrey) Gas Company, 443
Tamworth (N.S.W.) Gas Company, 963
Taunton Gas Company, 226
Wakefield Gas Company, 364
West Surrey Water Company, 1122
Weymouth Consumers' Gas Company, 361
Whitstable Water Company, 833
Whitworth Vale Gas Company, 301
Winchester Water and Gas Company, 447
Wolverhampton Gas Company, 442
Wrexham Gas Company, 444
Wrexham Water Company, 444
Yeovil Gas Company, 365
York New Water Works Company, 267
York United Gas Company, 267

Miscellaneous News.

Accident, Fatal, at the Leeds Corporation Gas Works, 748, 793
Amalgamation of the London Gaslight Company and The Gaslight and Coke Company, The Scheme for the Proposed, 316
America, Some Notes from, 318, 610, 1046
Ascot District, Gas Supply to the, 267
Ashford (Kent), The Sewerage of, 877
Ashton, Mr. W., General Manager of the Sheffield Water Company, Resignation of, 704
Awards at the Stockport Gas Exhibition, List of, 1003
Aylesbury, Sewage Farming at, 749
Bakers' Ovens, Gas for, 612
Barrow Corporation Gas Supply, 701
Batley, The Disposal of Gas Profits at, 364
Belfast Corporation Gas Supply, 266
Bilston Gas Company, The, and the Local Board, 963
Birkenhead Corporation Gas Works, The New Siding at the, 402
Birmingham Corporation Gas and Water Supply, 269, 658, 1034
Birmingham Corporation Gas Committee, Report of the, on the Supply of Electricity for Lighting Purposes, 788
Birmingham Corporation, The, and the Supply of Gas Stoves and Fittings, 1094
Bishop Auckland, The Public Lighting of, 569
Blackburn—
Corporation Gas and Water Supply, 226, 874
Explosion in a Large Gas Lamp at, 139
Gas Discount System at, 530

Board of Trade—
Deputation to the, as to Electric Lighting, 1044
Standards Department and the, 960
Bolton Corporation Gas and Water Supply, 402, 958
Bradford Corporation Gas and Water Supply, 311, 701, 733, 963, 1003
Bramwell, Sir F. J., on the Purchase of Public Undertakings by Corporations, 223
Bridgenorth Gas Works, Purchase of the, by the Corporation, 90, 226
Brighton, Improved Public Lighting at, 447
Buxton, The Sewage Question at, 1133
Cardiff Corporation Water Supply, 23, 567, 791
Carlisle Corporation Gas and Water Supply, 699, 748
Chamberlain Gas, The, 751
Cheltenham Corporation Water Supply, 485
Chemical Ventilation, 566
Chesterfield, The Public Lighting of, 699
Chester, Improved Public Lighting at, 1007
Cockermouth, The Public Lighting of, 612
Colchester Corporation Water Supply, 917
Colson, Appointment of Mr. A., as Manager of the Leicester Corporation Gas Works, 960
Cork Gas Consumers' Company, The Accounts of the, 871
Crystal Palace International Electric and Gas Exhibition, The Gas Institute Guarantee Fund in connection with the, 357, 400, 442, 481, 525, 566, 604, 652, 698, 747, 786, 827, 870, 918, 959, 1003, 1044
Darlington Corporation Gas and Water Supply, 660, 917, 1091
Dawlish, The Water Supply of, 998
Deaths of—
Mr. W. H. Barnett, 777, 830
Mr. E. Bates, 612
Mr. R. Briggs, 447
Mr. J. F. Burbidge, 1094
Mr. E. Goddard, 730, 777
Mr. B. Godlee, 1094
Mr. W. E. Hutchinson, 1094
Mr. W. Marshall, 908
Mr. R. K. Moorhouse, 254
Mr. C. G. Shone, 952
Mr. W. Sinclair, 488
Mr. J. S. Stephens, 822
Mr. D. Y. Stewart, 607
Mr. J. Thomas, 908
Mr. J. Wright, 612
Death, Sudden, at a Gas Works, 486
Diss, The Price of Gas at, 704
Dixon's New Metallic Gas, 569
Doncaster Corporation Water Supply, 660, 1007, 1132
Driffield, The Water Supply of, 226, 365, 1134
Dudley Gas Bill, The Costs of the Opposition to the, 704
Dudley, The Sewerage of, 572
Dukinfield, Denton, and Haughton Local Boards' Gas Supply, 787
East Worcestershire Water Works, Opening of the, 1094
Electric Gas Lighter, An, 135
Electric Lighting—
At Birmingham, 658, 788, 829
At Chesterfield, 699
At Cleethorpes, 488, 531
At Godalming, 90, 126, 488, 1132
At Hull, 1049
At South Kensington, 445
At the "City Temple," 433, 489
Bolton Town Council and, 790
Dangers of, 90, 308, 780
Deputation of Local Authorities to the Board of Trade as to, 1044
Discontinuance of, at the York Railway Station, 833
Engineers and, 186
In New York, 136, 488, 701
In the Midlands, 874
Leeds Town Council and, 607
London Commissioners of Sewers and, 790, 959
Manchester Corporation and, 793
Sheffield Town Council and, 568, 1094, 1134
Worcester Town Council and, 607, 833
Ely Local Board Water Supply, 1005
Employers' Liability Act, Gas Companies and the, 1094, 1133
Enfield Gas Company, Opening of the New Works of the, at Ponder's End, 656
Epsom, The Sewage of, 871
Excursion of Gas Works *Employés*, 126
Exhibitions of Gas Appliances, 88, 184, 226, 447, 486, 700, 786, 828, 875, 963, 1003
Explosions of Gas, 138, 139, 1049
Fenton, Sewerage Works for, 877
Fire at the Innerleithen Gas Works, 1132
Folkestone, Illuminated Concerts at, 364
Fulwood and Whittingham, The Water Supply of, 82
Gainsborough, The Public Lighting of, 572
Galgate Gaslight Flower Show, The, 660
Galton, Captain Douglas, on Sanitary Affairs, 609
Gas as the Most Economic Form of Fuel, 701
Gas Cooking at Rugby, 833
Gas Discount System at Blackburn, The, 530
Gas Engines and Gas Heating Apparatus, The Demand for, 1047
Gas Institute, The, and the International Electric and Gas Exhibition at the Crystal Palace, 357, 400, 442, 481, 525, 566, 604, 652, 698, 747, 786, 827, 870, 918, 959, 1003, 1044
Gas Manufacture, The Examinations in, 223, 698
Gas Products, Sales of, 22, 90, 138, 187, 226, 271, 318, 363, 403, 446, 488, 530, 571, 612, 660, 703, 751, 793, 833, 876, 923, 963, 1006, 1049, 1093
Gas Profits at Bradford, 963
Gas Shares, The Price of, 922
Gas Testing Places in the Metropolis, The, 226, 310
Gas *v.* Electricity in the North, 400, 530, 876
Gaslight and Coke Company's Workmen's Provident Society, The, 187
Gloucester Corporation Water Supply, 1007
Gravesend Gas Works, The Rating of the, 1133
Halifax, Water Charges at, 780
Hawick New Gas Works, The, 137
Hendon, The Gas Supply of, 921
Hexham, The Gas Supply of, 572
Holland, Projected Gas Exhibition in, 704
Horncastle, Damage to a Gasholder at, 833
Hornsey, The Gas Supply of, 445, 702
Huddersfield Corporation Gas and Water Supply, 399, 607
Hull Corporation Water Supply, 793
Idle, The Water Supply of, 642
Ilkeston Local Board Gas Supply, 112, 830, 1049
Innerleithen Gas Works, Fire at the, 1132
Ipswich, An Experiment in Improved Public Lighting at, 704
Keighley, Lead Poisoning at, 1004
Keighley Local Board Gas Supply, 401, 571
Kidderminster, The Public Lighting of, 361
Kingstown (Ireland), The Water Supply of, 793, 831
Lambeth Vestry, The, and the Charge for Water for Roads, 362
Lancashire Coal and Iron Trades, The, 90, 187, 750, 787, 1132
Lancaster Corporation Gas and Water Supply, 569, 609
Leeds Corporation Gas and Water Supply, 188, 531, 751
Leicester Corporation Gas and Water Supply, 608, 960
Leigh Gaslight Company, Limited, 1047
Leighton Buzzard New Gas Works, The, 700
Leyland, The Water Supply of, 486
Lichfield, The Public Lighting of, 403
Lightning Conductors, 570
Limerick, The Water Supply of, 447
Lincolnshire, Gas *v.* Electric Lighting in, 1034
Littlehampton, New Water Works for, 186
Little Hulton, The Drainage of, 1049
Liverpool Corporation Water Supply, 186, 485
Liverpool Gas Works, Proposed Purchase of the, by the Corporation, 526
Local Government Board, The Annual Report of the, 830
Long Eaton Gas Company, Opening of the New Works of the, 751
Longton Corporation Gas Supply, 660
Loughborough, The Water Supply of, 90, 961
Lymington (Hants), The Water Supply of, 448
Mablethorpe Gas Company, Limited, 523
Main Laying, Portable Stove for Use in, 226
Manchester Corporation Gas Supply, 266, 483, 524, 656
Mansfield Improvement Commissioners' Gas Supply, 874
Margate, The Water Supply of, 963
Metropolis Gas Supply—Chief Gas Examiner's Quarterly Reports, Abstract of the, 87, 655
Metropolis Water Supply—
Lieut.-Col. Bolton's Report on the, in 1881, 870
Registrar-General's Monthly Returns, 137, 527, 701, 922, 1092
Thames Conservancy and the, 445
Middlesbrough Corporation Gas Supply, 297, 1091
Money on Electric Lighting Affairs, 224, 486
Nasmyth, Mr. J., on the Use of Gas as Fuel, 701
Native Guano Company's Works at Aylesbury, The, 749
Newcastle and Gateshead Water Company, The, and the Tyne Salmon Conservancy Boards, 1049
New Joint-Stock Companies Registered, 90, 523, 1047
New Zealand, The Progress of Gas Supply in, 135
North Middlesex Gas Company, The, and their Accounts, 752
Nottingham Corporation Gas Supply, 84, 483, 1094
Oldbury Local Board Gas Supply, 126, 877, 1034
Oldham, Bursting of a Reservoir at, 1007
Paris, Serious Gas Explosion in, 138
Plymouth Corporation Water Supply, 609
Poole, The Public Lighting of, 362
Portsmouth, The Drainage of, 1004
Portswood (Southampton), The Public Lighting of, 1124
Presentations to—
Mr. A. Colson, 1132
Mr. T. O. Paterson, 704
Mr. H. Thomas, 604
Mr. O. J. Weeks, 77
Mr. A. W. H. Willey, 1044
Preston Gas Company, The Accounts of the, 90
Public Lighting, Improved, and Illuminated Concerts at Weston-super-Mare, 656
Public Undertakings, Sir F. J. Bramwell on the Purchase of, by Corporations, 223
Queensland, Water Storeage in, 793
Ramsgate Improvement Commissioners' Gas and Water Supply, 221, 362
Rating of the Gravesend Gas Works, 1133
Reductions in the Price of Gas, 90, 126, 271, 390, 530, 571, 612, 688, 751, 793, 833, 1049
Retford Corporation Gas and Water Supply, 921
Rochdale Corporation Gas and Water Supply, 308, 704
Rockhampton (Queensland), Lighting of the Fitzroy Bridge at, with Gas, 524
Rugby, Cooking by Gas at, 833
Sales of Gas and Water Shares, 23, 134, 223, 320, 390, 447, 483, 530, 660, 704, 751, 776, 833, 876, 963, 998, 1094, 1133
Salford Corporation Gas and Water Supply, 749, 873
Sandbach, Proposed Water Works for, 188
Sanitary Institute of Great Britain, 126, 609
Sawston (Cambs.) Lighted by Gas, 833
Scarborough—
Assessment of Water Rates at, 134
Gas Agitation at, 1126
Scotland, Notes from, 21, 88, 137, 186, 225, 270, 318, 363, 403, 446, 487, 529, 570, 611, 659, 702, 750, 792, 832, 875, 922, 961, 1006, 1048, 1093, 1133
Settle, New Gas Works at, 833
Sevenoaks, The Sewerage of, 830
Skelmanthorpe, The Water Supply of, 833
Slough, The Sewerage of, 188
Smethwick Local Board Gas Works, Proposed Extension of the, 527
Société Technique de l'Industrie du Gaz en France, 133
Society of Arts, Proceedings of the, 88, 833
Society of Engineers, 525, 963, 1091
Southampton Gas Company, Dinner to the *Employés* of the, 608
Southborough, The Water Supply of, 1092
Southend Gas Works, New Gasholder at the, 963
South Staffordshire Coal and Iron Trades, The, 488
South Staffordshire Water Works Company, New Reservoir for the, 21
Spongy Iron, Filtration through, 702
Stafford Corporation Gas Supply, 136
Staines and Egham Gas Works, Extensions at the, 82
Standards Department, The Board of Trade and the, 960
Stockport Gas Exhibition, List of Awards at the, 1003
Stockton and Middlesbrough Corporations' Water Supply, 530, 609, 751, 876
Stoke and Fenton Joint Gas Undertaking, Proposed Severance of the, 22, 185, 268, 1092
Stove, Portable, for Use in Main Laying, 226
Stroud, The Water Supply of, 990
St. George's (Bristol), Adoption of Gas Lighting at, 1049
St. Helens, A New Branch of Industry at, 923
St. Neots Local Board, The, and the Gas Company, 787
St. Thomas (Exeter), The Water Supply of, 226
Swinton, The Water Supply of, 188
Sydney (N.S.W.) Gas Works, Extensions at the, 444
Taunton, The Water Supply of, 226
Tees, The Pollution of the, 1094
Thirlmere Arbitration Case, The Award in the, 825
Thirsk, The Water Supply of, 998
Thompson's Smokeless Kiln and Oven Company, Limited, 90
Tipton Local Board Gas Supply, 87
Torpoint, The Water Supply of, 530
Torquay, The Water Supply of, 131
Towcester, The Water Supply of, 131
Upper Sedgley, The Gas Supply of, 224, 704
Vyrnwy Water Works, The, 186, 485
Wakefield Corporation Water Supply, 22, 485, 751
Walton-le-Dale, The Water Supply of, 131
Warrington Corporation Gas Supply, 136
Waterbeach Gas-Works, Sale of the, 923
Water and Water Supply, Mr. J. F. Bateman on, 268
Water Fittings, The Insurance of, at Birmingham, 90
Water for Road Purposes, The Basis of Charge for, 362
Water Rates, The Assessment of, at Scarborough, 134
Water Supply of Birmingham, Bradford, Leeds, Liverpool, and Manchester, Parliamentary Return as to the, 921
Waverley Association of Gas Managers, 530
Wellington Water Works, Purchase of the, by the Improvement Commissioners, 963
Weston-super-Mare, Illuminated Concerts and Improved Public Lighting at, 656
Whitchurch (Salop), The Water Supply of, 320
Whitwood, New Water Works for, 704
Widnes, A Novel Proposal in Regard to the Gas Supply of, 357, 527
Wigan Corporation Gas Supply, 747, 829
Wimbledon, The Public Lighting of, 606
Woking, The Water Supply of, 87
Wolverhampton Corporation Water Supply, 923
Woolston, The Water Supply of, 1049
Worcester Industrial and Fine Arts Exhibition, The Lighting of the, 135, 175, 787
Worcester, The Gas Supply of, 700, 963, 1049
York Gas Company—
Annual Gathering of the *Employés* of the, 184
New Works of the, 604

Quality of the London Gas Supply, 23, 227, 448, 572, 752, 924, 1134
Share List of Gas and Water Companies, 227, 404, 572